30/04/24

# LIBRARY MANAGEMENT SYSTEM

## 1. INTRODUCTION

### 1.1 Purpose of this document

The SRS document for library management system underlines the requirements (functional, non functional, interface requirements) which enables the developer to summarize and conceptualize the whole project. It also mentions the required performance, constraints and outcomes that one can expect.

### 1.2 Scope of this document:

Through this SRS document, the developer achieves to summarize the basics of the whole project to get a birds view. Aimed to predict the functionalities, performance, outcomes, schedule & budget expectations.

### 1.3 Overview

The library management system will be a robust / vast and secure software to store the book / catalouge / audio tapes / video tapes / documents etc, and the information related to them. It enables the users to access the book info. The system is kept upto date about the information. It will manage the user information, staff information as well as stakeholders.

## 2. General Description

This software will be used by libraries across organisation to electronically store, manipulate, manage the books in library. It stores the history of who issued the books, borrow date, receive date, user information etc. It also

will contain the book publishers database, donations ~~etc~~ e books, audio/video tapes etc.

3. FUNCTIONAL REQUIREMENTS
- User authentication (customers)
- Publisher authentication
- renting / issuing
- donating
- upto date book availability.
- ~~f~~ compartmentalization of books.
- user / customer service.

4. INTERFACE REQUIREMENTS
The GUI should be easy to navigate, with sections & compartments. The book cover should be available (image), summary describing the book. The system must be integrated with database upto date. user login should be easy, should be accessible across different systems

5. PERFORMANCE REQUIREMENTS
Availability
Response time
Capacity

6. DESIGN CONSTRAINTS
The system should be designed for easy access, enabling the users to navigate easily. The loading time should be minimum. The database should be vast and upto date (normalized). Should provide security.

7. NON FUNCTIONAL ATTributes

- user friendly interface
- High performance to handle large data
- Data security and protection
- should be compatible for all devices

8. scheduling and budgetting.

Estimated time is 3 months.
The budget split up is 40-20-40.
₹1,00,000.

Requirement phase - ₹15000
Design & implementation - ₹30000
Verification & validation - ₹30,000
Evolution & testing / maintenance - ₹15000

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